

COLSF
8.2 V1

**ABC LABORATORIES, INC.
EAST 4922 UNION AVENUE
SPOKANE, WA 99212
509-534-0161**

REPORT TO: Keytronic Corporation
P.O. Box 14687
Spokane, WA 99214

LAB NO: 31797-88
DATE: 9-20-88
DATE REC'D:
P.O.#
AUGUST 1988 RESULTS

ATTN: Bruce Austin

DESCRIPTION: Perform Volatile Organic Scan on 23 submitted samples from the Colbert Landfill area.

DETECTION LIMITS: 1 part per billion

ND: Not Detected

IS: Internal Standard

USEPA SF



1414338

OCT 14 1988
1000

Superfund Branch

ABC LABORATORIES, INC.

Keytronic Corporation

Lab NO. 31797-88

Name

(b) (6)

Colbert

Elem. Sch.

WELL NO.	1573K-3	1573R-1	0273J-1	1073M-1	10730-1	2673M-1
aaa Trifluorotoluene	IS	IS	IS	IS	IS	IS
Chloroform	ND	ND	ND	ND	ND	ND
1, 1, Dichloroethane	ND	ND	ND	ND	ND	ND
1, 1, Dichloroethylene	ND	ND	ND	ND	ND	ND
Trichloroethylene	ND	ND	ND	ND	ND	ND
1, 1, 1, Trichloroethane	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND
1-Pentene	ND	ND	ND	ND	ND	ND
Cyclopentane	ND	ND	ND	ND	ND	ND
Trans 2 Hexene	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND
Ethylene DiBromide	ND	ND	ND	ND	ND	ND
Ethly Benzene	ND	ND	ND	ND	ND	ND
M-xylene	ND	ND	ND	ND	ND	ND
O-xylene	ND	ND	ND	ND	ND	ND
P-xylene	ND	ND	ND	ND	ND	ND
Cumene	ND	ND	ND	ND	ND	ND
1,2,4 Trimethyl Benzene	ND	ND	ND	ND	ND	ND
P-cymene	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND
M-dichlorobenzene	ND	ND	ND	ND	ND	ND
O-dichlorobenzene	ND	ND	ND	ND	ND	ND
P-dichlorobenzene	ND	ND	ND	ND	ND	ND
Methyl Ethyl Ketone	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND
1, 2, Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1,2, Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1, 2, Dichloroethylene	ND	ND	ND	ND	ND	ND
1, 2, Dichloropropane	ND	ND	ND	ND	ND	ND
Cis 1, 3, Dichloropropane	ND	ND	ND	ND	ND	ND
Trans 1, 3, Dichloropropylene	ND	ND	ND	ND	ND	ND
1, 1, 2, 2, Tetrachloroethane	ND	ND	ND	ND	ND	ND
1, 1, 2, Trichloroethane	ND	ND	ND	ND	ND	ND
2, Chloroethylvinyl Ether	ND	ND	ND	ND	ND	ND

ABC LABORATORIES, INC.

Keytronic Corporation

Lab NO. 31797-88

Name

(b) (6)

WELL NO.	2273F-1	1673H-2	2273K-1	1573C-6	1573B-5	1473D-2
aaa Trifluorotoluene	IS	IS	IS	IS	IS	IS
Chloroform	ND	ND	ND	ND	ND	ND
1, 1, Dichloroethane	ND	ND	ND	ND	ND	ND
1, 1, Dichloroethylene	ND	ND	ND	ND	ND	ND
Trichloroethylene	ND	ND	ND	ND	ND	ND
1, 1, 1, Trichloroethane	ND	ND	ND	ND	6	ND
Tetrachloroethylene	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND
1-Pentene	ND	ND	ND	ND	ND	ND
Cyclopentane	ND	ND	ND	ND	ND	ND
Trans 2 Hexene	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND
Ethylene DiBromide	ND	ND	ND	ND	ND	ND
Ethly Benzene	ND	ND	ND	ND	ND	ND
M-xylene	ND	ND	ND	ND	ND	ND
O-xylene	ND	ND	ND	ND	ND	ND
P-xylene	ND	ND	ND	ND	ND	ND
Cumene	ND	ND	ND	ND	ND	ND
1,2,4 Trimethyl Benzene	ND	ND	ND	ND	ND	ND
P-cymene	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND
M-dichlorobenzene	ND	ND	ND	ND	ND	ND
O-dichlorobenzene	ND	ND	ND	ND	ND	ND
P-dichlorobenzene	ND	ND	ND	ND	ND	ND
Methyl Ethyl Ketone	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND
1, 2, Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1,2, Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1, 2, Dichloroethylene	ND	ND	ND	ND	ND	ND
1, 2, Dichloropropane	ND	ND	ND	ND	ND	ND
Cis 1, 3, Dichloropropane	ND	ND	ND	ND	ND	ND
Trans 1, 3, Dichloropropylene	ND	ND	ND	ND	ND	ND
1, 1, 2, 2, Tetrachloroethane	ND	ND	ND	ND	ND	ND
1, 1, 2, Trichloroethane	ND	ND	ND	ND	ND	ND
2, Chloroethylvinyl Ether	ND	ND	ND	ND	ND	ND

ABC LABORATORIES, INC.

Keytronic Corporation

Lab NO. 31797-88

Name

(b) (6)

WELL NO.	1473N-1	0373A-4	0273E-2	1573C-2	1573B-2	1573Q-1
aaa Trifluorotoluene	IS	IS	IS	IS	IS	IS
Chloroform	ND	ND	ND	ND	ND	ND
1, 1, Dichloroethane	ND	ND	ND	ND	1	ND
1, 1, Dichloroethylene	ND	ND	ND	ND	4	ND
Trichloroethylene	ND	ND	ND	ND	ND	ND
1, 1, 1, Trichloroethane	ND	ND	ND	ND	132	ND
Tetrachloroethylene	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND
1-Pentene	ND	ND	ND	ND	ND	ND
Cyclopentane	ND	ND	ND	ND	ND	ND
Trans 2 Hexene	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND
Ethylene DiBromide	ND	ND	ND	ND	ND	ND
Ethly Benzene	ND	ND	ND	ND	ND	ND
M-xylene	ND	ND	ND	ND	ND	ND
O-xylene	ND	ND	ND	ND	ND	ND
P-xylene	ND	ND	ND	ND	ND	ND
Cumene	ND	ND	ND	ND	ND	ND
1,2,4 Trimethyl Benzene	ND	ND	ND	ND	ND	ND
P-cymene	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND
M-dichlorobenzene	ND	ND	ND	ND	ND	ND
O-dichlorobenzene	ND	ND	ND	ND	ND	ND
P-dichlorobenzene	ND	ND	ND	ND	ND	ND
Methyl Ethyl Ketone	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND
1, 2, Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1, 2, Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1, 2, Dichloroethylene	ND	ND	ND	ND	ND	ND
1, 2, Dichloropropane	ND	ND	ND	ND	ND	ND
Cis 1, 3, Dichloropropane	ND	ND	ND	ND	ND	ND
Trans 1, 3, Dichloropropylene	ND	ND	ND	ND	ND	ND
1, 1, 2, 2, Tetrachloroethane	ND	ND	ND	ND	ND	ND
1, 1, 2, Trichloroethane	ND	ND	ND	ND	ND	ND
2, Chloroethylvinyl Ether	ND	ND	ND	ND	ND	ND

ABC LABORATORIES, INC.

Keytronic Corporation

Lab NO. 31797-88

Name

(b) (6)

Wahoo

(b) (6)

Well

WELL NO.

1473C-3

1073J-2

1573C-5

1073Q-3

02730-3

aaa Trifluorotoluene

IS

IS

IS

IS

IS

Chloroform

ND

ND

ND

ND

ND

1, 1, Dichloroethane

ND

ND

ND

4.0

ND

1, 1, Dichloroethylene

ND

ND

ND

5

ND

Trichloroethylene

ND

ND

ND

ND

ND

1, 1, 1, Trichloroethane

ND

ND

ND

234

ND

Tetrachloroethylene

ND

ND

ND

ND

ND

Methylene Chloride

ND

ND

ND

ND

ND

1-Pentene

ND

ND

ND

ND

ND

Cyclopentane

ND

ND

ND

ND

ND

Trans 2 Hexene

ND

ND

ND

ND

ND

Benzene

ND

ND

ND

ND

ND

Toluene

ND

ND

ND

ND

ND

Ethylene DiBromide

ND

ND

ND

ND

ND

Ethly Benzene

ND

ND

ND

ND

ND

M-xylene

ND

ND

ND

ND

ND

O-xylene

ND

ND

ND

ND

ND

P-xylene

ND

ND

ND

ND

ND

Cumene

ND

ND

ND

ND

ND

1,2,4 Trimethyl Benzene

ND

ND

ND

ND

ND

P-cymene

ND

ND

ND

ND

ND

Chlorobenzene

ND

ND

ND

ND

ND

M-dichlorobenzene

ND

ND

ND

ND

ND

O-dichlorobenzene

ND

ND

ND

ND

ND

P-dichlorobenzene

ND

ND

ND

ND

ND

Methyl Ethyl Ketone

ND

ND

ND

ND

ND

Acetone

ND

ND

ND

ND

ND

Bromodichloromethane

ND

ND

ND

ND

ND

Bromoform

ND

ND

ND

ND

ND

Carbon Tetrachloride

ND

ND

ND

ND

ND

Dibromochloromethane

ND

ND

ND

ND

ND

1, 2, Dichloroethane

ND

ND

ND

ND

ND

Trans 1,2, Dichloroethane

ND

ND

ND

ND

ND

Trans 1, 2, Dichloroethylene

ND

ND

ND

ND

ND

1, 2, Dichloropropane

ND

ND

ND

ND

ND

Cis 1, 3, Dichloropropane

ND

ND

ND

ND

ND

Trans 1, 3, Dichloropropylene

ND

ND

ND

ND

ND

1, 1, 2, 2, Tetrachloroethane

ND

ND

ND

ND

ND

1, 1, 2, Trichloroethane

ND

ND

ND

ND

ND

2, Chloroethylvinyl Ether

ND

ND

ND

ND

ND

ABC LABORATORIES, INC.

Keytronic Corporation

Lab NO. 31797-88

NAME	1	2	3	4	5
	(b) (6)	Organic		(b) (6)	
		Spike	Free Spike	Spike	
aaa Trifluorotoluene	IS	IS	IS	IS	IS
Chloroform	ND	ND	ND	ND	ND
1, 1, Dichloroethane	ND	ND	ND	ND	ND
1, 1, Dichloroethylene	1.0	11.	8.	8.	0.8
Trichloroethylene	ND	ND	ND	ND	ND
1, 1, 1, Trichloroethane	10	235	222.	234	11.0
Tetrachloroethylene	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND

Split samples with LAUCKS LABORATORIES. 7/28/88

Samples #2, #3 and #4 spiked with 10ppb 1,1.Dichloroethylene and 200ppb 1,1,1 Trichloroethane

Respectfully submitted,

ABC LABORATORIES, INC



W. E. Burkhardt

Manager

October 7, 1988

THIS IS AN UPDATE ON THE (b) (6) WELL QUALITY CONTROL ACTIVITIES

THIS IS A SINGLE WELL WITH TWO PUMPS STACKED ON TOP OF EACH OTHER.
THE (b) (6) PUMP IS ON TOP WITH THE (b) (6) PUMP BELOW.

Aug. 4, 1988 #31524-88 WELL# LAB 111-TCA 11-DCE 11-DCA TCE TETRACL CHLOROFORM

SAMPLE COLLECTED 6/8/88 MORRIS

(b) (6)	6-9-88	0273E-3	ABC	124	8	ND	ND	ND	ND
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SAMPLES COLLECTED 6/16/88 MORRIS

(b) (6)	6-16-88	0273E-3	ABC	4	<1	ND	ND	ND	ND
	6-17-88	0273E-3	ABC	6	<1	ND	ND	ND	ND

SAMPLES COLLECTED 6/23/88 MORRIS - SPLIT SAMPLE ANALYZED BOTH LABS

(b) (6)	6-24-88-F	0273E-3	ABC	23	2	ND	ND	ND	ND
	6-24-88-H	0273E-3	ABC	15	6	ND	ND	ND	ND
	6-27-88-F	0273E-3	WDOE	117	ND	ND	ND	ND	ND
	6-27-88-H	0273E-3	WDOE	111	ND	ND	ND	ND	ND

(F-COLLECTED AT FAUCET ** H-COLLECTED FROM HOSE)

SAMPLES COLLECTED 6/23/88 MORRIS - SPLIT SAMPLE ANALYZED BOTH LABS

(b) (6)	6-27-88	0273E-3	ABC	87	4	ND	ND	ND	ND
	6-27-88	0273E-3	WDOE	142	ND	ND	ND	ND	ND
	6-27-88	0273E-3	WDOE	131	ND	ND	ND	ND	ND

Aug 8, 1988 #31598-88 WELL# LAB 111-TCA 11-DCE 11-DCA TCE TETRACL CHLOROFORM

SAMPLES COLLECTED 7/13/88 LEINART

(b) (6)	7-13-88	0273E-3	ABC	240	11	1	ND	ND	ND
	7-13-88	0273E-3	ABC	250	12	1	ND	ND	ND

Sept 20, 1988 #31797-88 WELL# LAB 111-TCA 11-DCE 11-DCA TCE TETRACL CHLOROFORM

COLLECTED 7/26/88 SPLIT SAMPLES SENT TO LAUCKS TESTING LAB

(b) (6)	7-28-88	0273E-3	ABC	11	.80	ND	ND	ND	ND
	7-28-88 SPIKE	0273E-3	ABC	234	8	ND	ND	ND	ND
(b) (6)	7-28-88	0273E-3	ABC	10	11	ND	ND	ND	ND
	7-28-88 SPIKE	0273E-3	ABC	235	1	ND	ND	ND	ND
	FREE SPIKE	ABC	0273E-3	ABC	222	8	ND	ND	ND

Aug. 29, 1988 #11133-rev WELL# LAB 111-TCA 11-DCE 11-DCA TCE TETRACL CHLOROFORM

COLLECTED 7/26/88 SPLIT SAMPLES ABC LABS

(b) (6)	7-28-88	0273E-3	LAUCKS	13	<1	<1	<1	<1	<1	BROMODICHLOROMETHANE=1
	7-28-88	0273E-3	LAUCKS	7	<1	<1	<1	<1	<1	CHLOROFORM=2; and
										1,1,2,2-TETRACHLOROETHANE=2
	ORGANIC FREE SPIKE	0273E-3	LAUCKS	190	8	<1	<1	<1	<1	

SAMPLES COLLECTED 7/26/88, SHOWED TINY AIR BUBBLES IN THE WATER SAMPLES, FURTHER EVIDENCE THAT LOW WATER LEVELS EXIST AND THAT THE TURBLANCE CAUSE BY THE PUMP ACTION MAY ACCOUNT FOR SOME OF THE VARIANCE. THIS SAMPLING WAS SENT TO TWO LABORATORIES FOR ANALYSIS. TWO OF THESE WERE SPIKED WITH 200 PPB OF 1,1,1,TCA AND 10 PPB OF 1,1,DCE WITH ANALYSIS AT ABC LABS, AND AN ORGANIC FREE SPIKE WATER SENT TO EACH LAB. THE RESULTS ABOVE WHICH ARE LABELED WITH THE WORD SPIKE SHOW THE ADDITION OF 111TCA AND 11DCE AT THE ABOVE CONCENTRATIONS TO THE COLLECTED SAMPLE.

PERFORMANCE STANDARDS
MAXIMUM ALLOWABLE CONTAMINANT CONCENTRATIONS

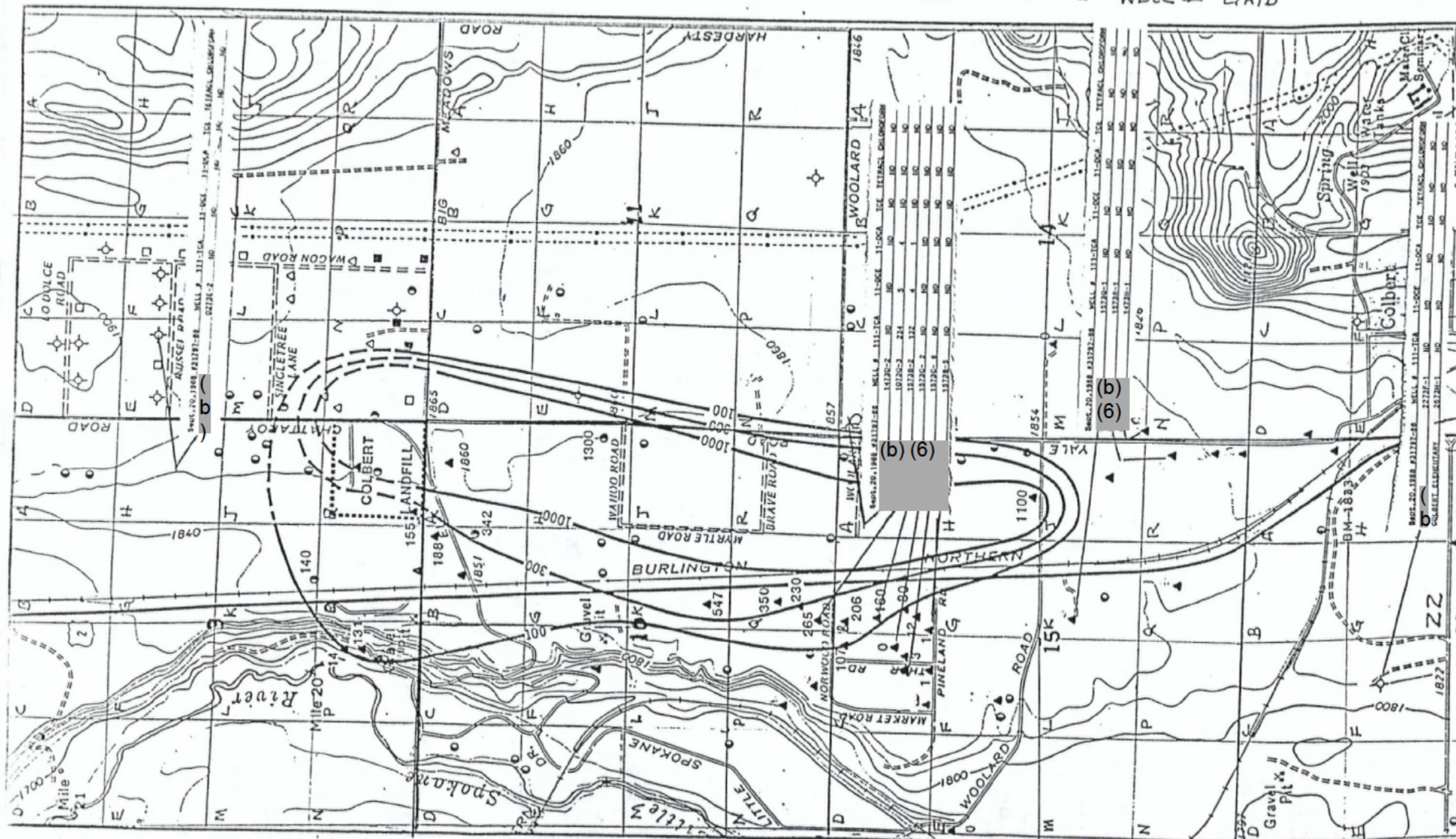
Health Protection Levels *

Contaminant	Maximum Concentration parts per billion (ug/l)	Basis
1,1,1-Trichloroethane (TCA)	200.0	MCL
1,1-Dichloroethylene (DCE)	7.0	MCL
1,1-Dichloroethane (DCA)	4050.0	MAC
Trichloroethylene (TCE)	5.0	MCL
Tetrachloroethylene (PCE or TETRA CL)	0.7	10 -6 cancer risk
Methylene Chloride (MC)	2.5	10 -6 cancer risk

* Health Protection Levels are not to be exceeded, during operational life of remedial action, in effluents from groundwater treatment systems. Permanent reduction of contaminant concentrations below these levels throughout the site will indicate completion of the remedial action.

SHALLOW AQUIFER MAP

▲ - SHALLOW OR UPPER SANDS AQUIFER = WELL # GRID



Health Protection Levels *

Contaminant	Maximum Concentration parts per billion (ug/l)	Basis
1,1,1-Trichloroethane (TCA)	200.0	MCL
1,1-Dichloroethylene (DCE)	7.0	MCL
1,1-Dichloroethane (DCA)	4050.0	MAC
Trichloroethylene (TCE)	5.0	MCL
Tetrachloroethylene (PCE or TETRA CL)	0.7	10 -6 cancer risk
Methylene Chloride (MC)	2.5	10 -6 cancer risk

* Health Protection Levels are not to be exceeded, during operational life of remedial action, in effluents from groundwater treatment systems. Permanent reduction of contaminant concentrations below these levels throughout the site will indicate completion of the remedial action.

DEEP AQUIFER MAP ① - DEEP OR ASSOCIATED WITH DEEP AQUIFER = WELL # GRID

